

October 20, 2017

#5E26442-BG1

NMOCD District II Mike Bratcher 811 S. First St. Artesia, NM 88210

SUBJECT: SOIL REMEDIATION WORK PLAN FOR THE INCIDENT AT THE QUICK DRAW 22 D # 1 BATTERY RELEASE, EDDY COUNTY, NEW MEXICO

Dear Mr. Bratcher,

On behalf of Mewbourne Oil Company (Mewbourne), Souder, Miller & Associates (SMA) has prepared this WORK PLAN that describes the assessment, initial delineation and proposed remediation for a release associated with the Quick Draw 22 D #1 Battery release. The site is in UNIT D, SECTION 22, TOWNSHIP 20S, RANGE 25E, NMPM, Eddy County, New Mexico, on BLM land. Figure 1 illustrates the vicinity and location of the site.

Table 1, below, summarizes information regarding the release.

Table 1: Rele	ease information and Site Ranking
Name	Quick Draw 22 D #1 Battery
Company	Mewbourne Oil Company
RP Number	2RP-4304
API Number	30-015-37377
Location	32.564940° -104.480340°
Estimated Date of Release	7/22/17
Date Reported to NMOCD	7/22/17
Land Owner	Federal
Reported To	Mike Bratcher
Source of Release	Lightning Strike
Released Material	Oil
Released Volume	15 bbls
Recovered Volume	10 bbls
Net Release	5 bbls
Nearest Waterway	0.4 Miles from South Seven Rivers
Depth to Groundwater	Estimated to be greater than 50'
Nearest Domestic Water Source	Greater than 1,000 feet
NMOCD Ranking	10
SMA Response Dates	Initial: 8/22/17

1.0 Background

The tank battery was struck by lightning causing a release into a lined secondary containment and south of containment. Following the release, the tanks and secondary containment were removed and disposed of, and the caliche under containment was scraped.

2.0 Site Ranking and Land Jurisdiction

The release site is located approximately 5.1 miles west of the Pecos River, with an elevation of approximately 3,450 feet above sea level. SMA searched the New Mexico State Engineer's Office (NMOSE) online water well database for water wells in the vicinity of the release. 13 wells are located within a three-mile radius of the site. After evaluation of the site using aerial photography and topographic maps, depth to groundwater is estimated to be 55 feet below ground surface (bgs).

Recommended Remediation Action Levels (RRALs) are determined by the site ranking according to the NMOCD *Guidelines for Remediation of Leaks, Spills, and Releases* (1993). Below in Table 2 are the remediation standards and the site ranking for this location. Justification for this site ranking is found in Figure 1 and Appendix B.

Table 2.

Soil Remediation Standards	0 to 9	10 to 19	>19
Benzene	10 PPM	10 PPM	10 PPM
BTEX	50 PPM	50 PPM	50 PPM
ТРН	5000 PPM	1000 PPM	100 PPM

Depth to Groundwater	NMOCD Numeric Rank
< 50 BGS = 20	
50' to 99' = 10	10
>100' = 0	
Distance to Nearest Surface Water	NMOCD Numeric Rank
< 200' = 20	
200' - 1000' = 10	
>1000' = 0	0
Well Head Protection	NMOCD Numeric Rank
<1000' (or <200' domestic) = 20	
> 1000' = 0	0
Total Site Ranking	10

3.0 Release Characterization

On August 22nd and 30th, 2017 and after receiving 811 clearance, SMA field personnel assessed the release area. Soil samples were field-screened using an EC meter and collected to characterize and delineate the release. All samples were collected and processed according to NMOCD soil sampling procedures. The samples were sent under chain-of-custody protocols to Hall Environmental Analysis Laboratory for analyses including chlorides by Method 300.0, volatile organics (BTEX) by Method

8021B, and MRO, DRO, and GRO by EPA Method 8015D. Sample locations are depicted on Figure 2. All field screening and laboratory results are summarized in Table 3. Laboratory reports are included in Appendix C.

4.0 Soil Remediation Workplan

SMA will begin the excavation of affected soils, with approval from area utilities owners via 811 and NMOCD. SMA will continuously guide the excavation activities by collecting composite soil samples for field screening with a mobile titration unit (EPA 4500) and a calibrated PID. Excavation will occur to depths of four feet bgs within the pasture around sample points L4 and L5 as shown in Figure 2. A plastic 40 mill liner will be placed in the open excavation at four feet, and a minimum of four sidewall samples will be collected and field screened for chloride impact. Additionally, the area beneath the battery, represented by L2 and L3, will be scraped 0.5 feet bgs to remove the hydrocarbon affected soils there. Approximately 165 cubic yards of contaminated soil are projected to be removed and replaced with clean backfill material to return the surface to previous contours. The contaminated soil will be transported for proper disposal at Lea Land, near Carlsbad, NM, an NMOCD permitted disposal facility.

5.0 Scope and Limitations

The scope of our services consisted of the performance of assessment sampling, verification of release stabilization, regulatory liaison, and preparation of this work plan. All work has been performed in accordance with generally accepted professional environmental consulting practices for oil and gas releases in the Permian Basin in New Mexico.

If there are any questions regarding this report, please contact either Austin Weyant at 575-689-8801 or Shawna Chubbuck at 505-325-7535.

Submitted by:

SOUDER, MILLER & ASSOCIATES

Austin Weyant Project Scientist

Reviewed by:

Jennifer Knowlton, PE Senior Engineer II

Jennifu Knowlon

ATTACHMENTS:

Figures:

Figure 1: Vicinity and Well Head Protection Map

Figure 2: Site and Sample Location Map

Tables:

Table 3: Summary of Sample Results

Appendices:

Appendix A: Form C141 Initial Appendix B: NMOSE Wells Report

Appendix C: Laboratory Analytical Reports

FIGURE 1 VICINITY AND NMOSE DATA MAP

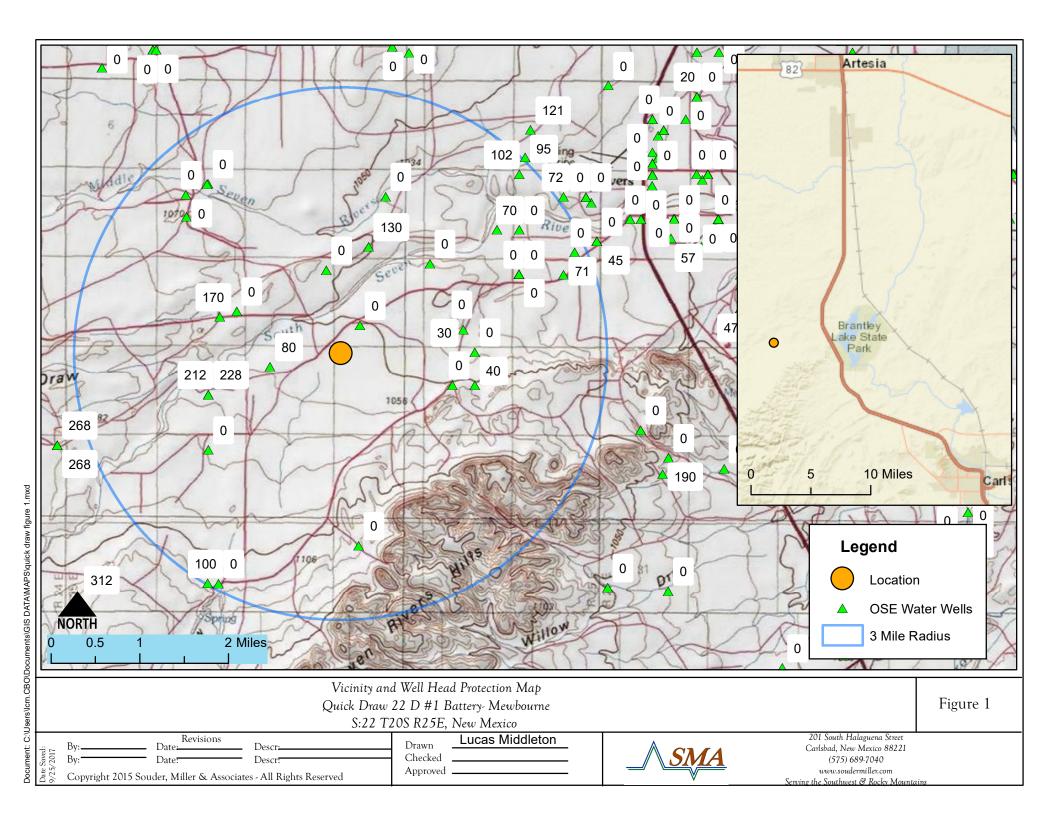
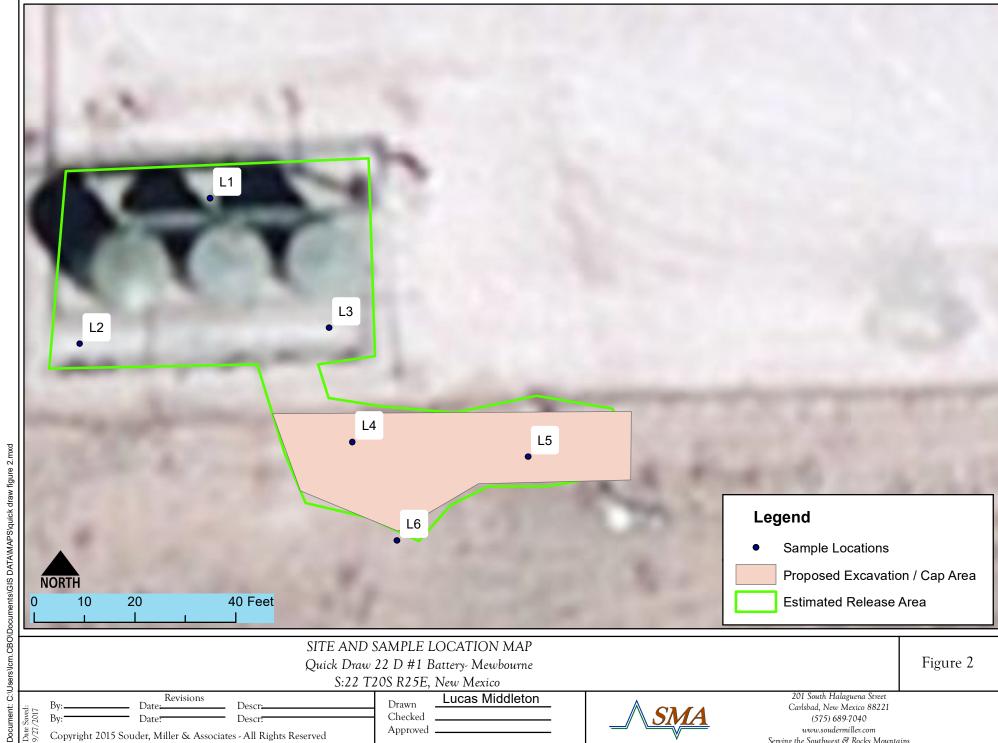


FIGURE 2 SITE AND SAMPLE LOCATION MAP



(575) 689-7040

www.soudermiller.com

Serving the Southwest & Rocky Mountai

Descr:

Checked

Approved

Date:

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TABLE 3 SUMMARY SAMPLE RESULTS

QUICK DRAW 22 D # 1 BATTERY

Table 3

Sample				BTEX	Benzene	GRO	DRO	MRO	Total TPH	CI-	CI-
Number on Figure 2	Sample Date	Depth (feet bgs)	Proposed Action	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	Field Screens (ppm)	Laboratory mg/Kg
NI	MOCD RRAL's for	Site Ranking	10	50 mg/Kg	10 mg/Kg				1000 mg/Kg		
	10/6/2017	0.5	in-situ	<0.023	<0.094	<4.7	260	150	410		76
	8/30/2017	2	in-situ	<0.098	<0.024	<4.9	96	57	153	359	
L1	8/30/2017	4	in-situ							244	
	8/30/2017	6	in-situ			<4.6	<10	<50	<50		
	8/30/2017	10	in-situ								63
	10/6/2017	0.5	Excavate	<0.025	<0.098	<4.9	840	600	1440		330
L2	10/6/2017	2	in-situ								590
	8/30/2017	4	in-situ	1		1		1		932	
L3	10/6/2017	0.5	Excavate	<0.023	<0.094	<4.7	810	650	1460		200
L3	8/30/2017	2	in-situ	-		1		1		144	
	8/30/2017	0.5	Excavate	<0.093	<0.023	<4.7	<10	<50	<50		160
	8/30/2017	2	Excavate							4,128	
1.4	8/30/2017	4	Excavate							5,218	
L4	8/30/2017	6	Сар	-		-		-		4,687	4900
	8/30/2017	8	in-situ							5,461	
	8/30/2017	12	in-situ								260
L5	10/6/2017	0.5	Excavate			<5.0	<9.8	<49	<65		5500
L6	8/30/2017	0.5	in-situ							<216	94

[&]quot;--" = Not Analyzed

APPENDIX A FORM C141 INITIAL

AMENDED COPY

Received 10/24/2017 NMOCD Dist 2

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Revised August 8, 2011

ubmit 1 Copy to appropriate District Office in

Form C-141

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

	Release Notification and Corrective Action											
nAB172062	28182					OPERA				al Report		Final Report
		lewbourne C		any		Contact: Za						
		0 Hobbs NM Draw 22 D				Telephone No. 575-393-5905 Facility Type: Producing Oil Well						
			+1 Datter									
Surface Ow	ner: BLM			Mineral O	wner:	: API No. 30-015-37377						
				LOCA	OIT	N OF REI	LEASE					
Unit Letter D	Section 22	Township 20S	Range 25E	Feet from the 330'	North North	n/South Line	Feet from the 330'	East/V West	Vest Line	County Eddy		
			La	ntitude32.565	1817_	Longitud	le104.48007	2				
				NAT	URE	OF REL						
Type of Rele	ase: Oil					Volume of bbls oil	Release: estimate	ed 15	Volume F 10 bbls oi	Recovered:		
Source of Re	lease: Tank	Battery				Date and H	our of Occurrenc 12:45 pm	е		Hour of Dis 12:45		у
Was Immedia	ate Notice (Yes [No □ Not Re	quired	If YES, To Shelly Tuc		N	like Bratch	er, NMOCD)	
By Whom? 2						Date and H			:40 pm			
Was a Water	course Read		Yes 🗵	No		If YES, Vo	lume Impacting t	he Wate	ercourse.			
If a Watercou	rse was Im	pacted, Descr	ibe Fully.*									
Describe Cau	se of Proble	em and Reme	dial Action	ı Taken.*								
Lightning struwere dispatch			ire. Well	was shut-in and a	ll sepai	ration equipme	ent isolated. Atok	a, La H	uerta, and I	Riverside Fi	re Dep	partments
Describe Area	a Affected	and Cleanup A	Action Tak	en.*								
Affected area fluid.	- Lined sec	ondary contain	nment as v	well as a 10' x 40'	area S	outh of tanks	off of the pad surf	face. Va	acuum trucl	k used to rec	cover	all standing
regulations al public health should their o	l operators or the envir perations h ment. In a	are required to conment. The ave failed to a ddition, NMO	report an acceptance dequately CD accep	is true and compled/or file certain re- ee of a C-141 repo- investigate and re- tance of a C-141 re-	elease r rt by the emedian	notifications ar ne NMOCD mate contaminati	nd perform correct arked as "Final Roon that pose a three	tive acti eport" d eat to gr	ons for rele oes not reli ound water	eases which eve the oper , surface wa	may or rator of iter, h	endanger of liability uman health
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Signature:	5.7	ional				Amend	led copy - Environmental Sp	Acc	epted 1	for Rec	ord	l
Printed Name	: Zack Tho	mas				Approved by	Environmental Sp	pecialisi	•			
Title: Environ	mental Rep).				Approval Dat	e:]	Expiration l	Date:		
E-mail Addre	ss: zthomas	@mewboum	e.com			Conditions of	Approval:			Attached		
Date: 7-24-17			P	Phone: 575-602-21	88							

NM OIL CONSERVATION

ARTESIA DISTRICT

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

JUL 2 4 2017

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in **RECEIVED** rdance with 19.15.29 NMAC.

Release Notification and Corrective Action												
NABIT	20 628	182				OPERA	ror		☑ Initia	al Report	П	Final Report
Name of Co			il Compa	any 14744	(Contact: Zac	ck Thomas					
Address: PC	Box 527	0 Hobbs NM	88241			l'elephone l	No. 575-393 - 590)5				
Facility Nan	ne: Quick	Draw 22 D	[‡] l Batter	у	I	Facility Typ	e: Producing Oi	l Well				
Surface Own	ner: BIM			Mineral Ov	wner.				ADINO	. 30-015-3	7377	
Bullace Own	HCI. BLIVI	7			······································				AIINO	. 30-013-3	1311	
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			L	ntitude32.5651	1817_	Longitud	le104.48007	L 2		<u> </u>	<u></u>	<u> </u>
NATURE OF RELEASE												
Type of Relea	Type of Release: Oil Volume of Release: estimated 15 Volume Recovered:											
						bbls oil			10 bbls of		·	
Source of Rel	ease: Tank	Battery				1	lour of Occurrence	e		Hour of Dis	-	
Was Immedia	te Notice (Siven?				7-22-17 If YES, To	12:45 pm Whom?		7-22-17	12:45	am	
Was IIIIII Cale	no monec c		Yes [No Not Rec	quired	Shelly Tuc		M	ike Bratch	er, NMOCI)	
By Whom? Z	Zack Thoma	as			***************************************	Date and H	lour 7-22-1	7 3:	40 pm			
Was a Watero		hed?		_	***************************************	If YES, Vo	lume Impacting t	he Wate	rcourse.			
			Yes 🗵	No								
If a Watercou	If a Watercourse was Impacted, Describe Fully.*											
Describe Cau	se of Proble	em and Reme	dial Actio	Taken.*				······································		<u></u>	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Lightning stru were dispatch			ire. Well	was shut-in and all	l separa	tion equipme	ent isolated. Atok	a, La Hi	ierta, and	Riverside Fi	re Depa	rtments
were dispaten	ica to par o	ut IIIO.										
Describe Area	Affected a	and Cleanup A	Action Tak	en.*							,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Affected area	- Lined sec	ondary contai	nment as s	well as a 10' x 40'.	area So	uth of tanks	on nad surface. V	acuum t	ruck used	to recover a	ll stand	ing fluid.
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				investigate and re								
or the environ	ment. In a	ddition, NMC	CD accep	tance of a C-141 re								
federal, state,	or local lav	vs and/or regu	lations.		T	***************************************	OIL COM	OFDI	ATION	DIMEIC	<u> </u>	
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Printed Name	: Zack Ino	mas				· · · · · · · · · · · · · · · · · · ·		Т	······			
Title: Environ	mental Rep	o	**************************************		I	Approval Dat	e: 7/25/17	E	Expiration	Date: W	4	
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Date: 7-24-17	·		Į.	Phone: 575-602-21	88	500 i	attached					
Attach Addit	ional Shee	ets If Necess	ary	Please refer	to the	Now Mari	- 01			A - N	1 -	
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				http://www.	emprali	state	,					
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OCD/ forms.html

Thank you

Operator/Responsible Party,

The OCD has received the form C-141 you provided on 7/24/2017 regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number has been assigned. Please refer to this case number in all future correspondence.

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete <u>division-approved corrective action</u> for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District 2 office in ARTESIA on or before 8/24/2017. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

- Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.
- Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.
- Nominal detection limits for field and laboratory analyses must be provided.
- Composite sampling is not generally allowed.
- Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

- •Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.
- If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.
- Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

Jim Griswold
OCD Environmental Bureau Chief
1220 South St. Francis Drive
Santa Fe, New Mexico 87505
505-476-3465
jim.griswold@state.nm.us

APPENDIX B NMOSE WELLS REPORT



New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.) (R=POD has been replaced, O=orphaned, C=the file is

closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

water right file.)	closed)	(qua	rtei	s a	re sr	nalles	st to large	St) (N	AD83 UTM in me	ters)	(1	n teet)	
	POD Sub-		Q	-								Depth	
POD Number	Code basin Coun	ty 64	16	4	Sec	Tws	_	X	Y	Distance	Well	Water	Column
RA 05227	ED			1	21	20S	25E	547506	3602926*	1329	100	80	20
RA 05973	ED		4	3	10	20S	25E	549280	3605111 🌍	1965	200	130	70
RA 06504	ED			3	14	20S	25E	550704	3603718*	1965	100		
RA 10141	ED	3	4	1	23	20S	25E	550815	3602617*	2092	245		
RA 05274	ED	2	4	3	14	20S	25E	551005	3603618*	2237	100	30	70
RA 04349	ED	4	1	4	17	20S	25E	546587	3603827*	2305	231	170	61
RA 10142	ED	1	1	2	23	20S	25E	551213	3603218*	2406	91		
RA 05972	ED	3	3	2	23	20S	25E	551217	3602617*	2480	170	40	130
RA 05038	ED	1	1	4	20	20S	25E	546390	3602416* 🌑	2541	314	228	86
RA 10618	ED	1	1	4	20	20S	25E	546389	3602414 🌑	2542	342	212	130
RA 10779	ED	1	3	2	10	20S	25E	549580	3606026*	2926	1300		
RA 09978	ED	3	1	2	29	20S	25E	546393	3601410* 🌑	3007	350		
RA 10918 POD1	ED	3	2	4	11	20S	25E	551600	3605434*	3574	694	70	624
RA 03265	ED	1	2	3	80	20S	25E	545972	3605636*	3735	150		
RA 01952	ED	3	1	3	12	20S	25E	552005	3605437*	3900			
RA 05666	ED	3	1	2	80	20S	25E	546342	3606233 🌑	3905	249	249	0
RA 10718	ED	3	1	2	13	20S	25E	552812	3604632*	4252	640	71	569
RA 10817	ED	1	1	1	12	20S	25E	552002	3606443* 🎒	4550	743	102	641
RA 04501	ED	4	3	4	12	20S	25E	553011	3605035*	4585	100		
RA 05458	ED		3	3	01	20S	25E	552101	3606747*	4838	500	95	405
C 03245	C ED	3	1	4	32	20S	25E	546395	3598990*	4855	253	100	153
RA 10818	ED	1	3	2	12	20S	25E	552807	3606039*	4903	692	72	620

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

Average Depth to Water: 117 feet

Minimum Depth: 30 feet

Maximum Depth: 249 feet

Record Count: 22

UTMNAD83 Radius Search (in meters):

Easting (X): 548806.63 **Northing (Y):** 3603203.82 **Radius:** 5000

APPENDIX C LABORATORY ANALYTICAL REPORTS



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

September 27, 2017

Austin Weyant Souder, Miller & Associates 201 S Halagueno Carlsbad, NM 88221

TEL: (575) 689-7040

FAX

RE: Quick Draw OrderNo.: 1709048

Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 7 sample(s) on 9/1/2017 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman

Laboratory Manager

Indest

4901 Hawkins NE

Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 9/27/2017

CLIENT: Souder, Miller & Associates Client Sample ID: L4-0.5

 Project:
 Quick Draw
 Collection Date: 8/30/2017 1:45:00 PM

 Lab ID:
 1709048-001
 Matrix: SOIL
 Received Date: 9/1/2017 8:45:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	:: MRA
Chloride	160	30	mg/Kg	20	9/11/2017 10:05:36 PM	1 33808
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS	3			Analyst	: TOM
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	9/7/2017 1:14:31 PM	33721
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	9/7/2017 1:14:31 PM	33721
Surr: DNOP	102	70-130	%Rec	1	9/7/2017 1:14:31 PM	33721
EPA METHOD 8015D: GASOLINE RANG	GE				Analyst	:: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	9/5/2017 7:16:53 PM	33682
Surr: BFB	80.2	54-150	%Rec	1	9/5/2017 7:16:53 PM	33682
EPA METHOD 8021B: VOLATILES					Analyst	:: NSB
Benzene	ND	0.023	mg/Kg	1	9/5/2017 7:16:53 PM	33682
Toluene	ND	0.047	mg/Kg	1	9/5/2017 7:16:53 PM	33682
Ethylbenzene	ND	0.047	mg/Kg	1	9/5/2017 7:16:53 PM	33682
Xylenes, Total	ND	0.093	mg/Kg	1	9/5/2017 7:16:53 PM	33682
Surr: 4-Bromofluorobenzene	123	66.6-132	%Rec	1	9/5/2017 7:16:53 PM	33682

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 1 of 11
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Date Reported: 9/27/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: L1-2

 Project:
 Quick Draw
 Collection Date: 8/30/2017 12:55:00 PM

 Lab ID:
 1709048-002
 Matrix: SOIL
 Received Date: 9/1/2017 8:45:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANIC	S			Analys	t: TOM
Diesel Range Organics (DRO)	69	9.4	mg/Kg	1	9/7/2017 1:36:48 PM	33721
Motor Oil Range Organics (MRO)	57	47	mg/Kg	1	9/7/2017 1:36:48 PM	33721
Surr: DNOP	106	70-130	%Rec	1	9/7/2017 1:36:48 PM	33721
EPA METHOD 8015D: GASOLINE RAN	IGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	9/5/2017 7:40:44 PM	33682
Surr: BFB	83.8	54-150	%Rec	1	9/5/2017 7:40:44 PM	33682
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.024	mg/Kg	1	9/5/2017 7:40:44 PM	33682
Toluene	ND	0.049	mg/Kg	1	9/5/2017 7:40:44 PM	33682
Ethylbenzene	ND	0.049	mg/Kg	1	9/5/2017 7:40:44 PM	33682
Xylenes, Total	ND	0.098	mg/Kg	1	9/5/2017 7:40:44 PM	33682
Surr: 4-Bromofluorobenzene	121	66.6-132	%Rec	1	9/5/2017 7:40:44 PM	33682

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 2 of 11
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Date Reported: 9/27/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: L1-6

Project: Quick Draw Collection Date: 8/30/2017

Lab ID: 1709048-003 **Matrix:** SOIL **Received Date:** 9/1/2017 8:45:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS	3			Analys	t: TOM
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	9/7/2017 1:58:56 PM	33721
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	9/7/2017 1:58:56 PM	33721
Surr: DNOP	108	70-130	%Rec	1	9/7/2017 1:58:56 PM	33721
EPA METHOD 8015D: GASOLINE RA	ANGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	9/5/2017 8:04:35 PM	33682
Surr: BFB	80.1	54-150	%Rec	1	9/5/2017 8:04:35 PM	33682

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	Е	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 3 of 11
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Date Reported: 9/27/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: L1-10

 Project:
 Quick Draw
 Collection Date: 8/30/2017 1:10:00 PM

 Lab ID:
 1709048-004
 Matrix: SOIL
 Received Date: 9/1/2017 8:45:00 AM

Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Ar	alyst: MRA
Chloride	63	30	mg/Kg	20 9/11/2017 10:18:0	1 PM 33808

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 4 of 11
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Date Reported: 9/27/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: L6-0.5

 Project:
 Quick Draw
 Collection Date: 8/30/2017 2:12:00 PM

 Lab ID:
 1709048-005
 Matrix: SOIL
 Received Date: 9/1/2017 8:45:00 AM

Analyses	Result	PQL Qua	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	yst: MRA
Chloride	94	30	mg/Kg	20 9/11/2017 10:30:26 F	PM 33808

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 5 of 11
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Date Reported: 9/27/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: L4-6

Project: Quick Draw
 Collection Date: 8/30/2017 1:48:00 PM

 Lab ID: 1709048-006
 Matrix: SOIL
 Received Date: 9/1/2017 8:45:00 AM

Analyses	Result	PQL Qua	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	st: MRA
Chloride	4900	150	mg/Kg	100 9/26/2017 12:04:10 A	M 33808

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 6 of 11
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Date Reported: 9/27/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: L4-12

 Project:
 Quick Draw
 Collection Date: 8/30/2017 2:12:00 PM

 Lab ID:
 1709048-007
 Matrix: SOIL
 Received Date: 9/1/2017 8:45:00 AM

Analyses	Result	PQL Qua	al Units	DF Date Anal	yzed	Batch
EPA METHOD 300.0: ANIONS					Analys	st: MRA
Chloride	260	30	mg/Kg	20 9/13/2017	1:24:50 PM	33817

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	Е	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 7 of 11
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#: **1709048**

27-Sep-17

Client: Souder, Miller & Associates

Project: Quick Draw

Sample ID MB-33808 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 33808 RunNo: 45542

Prep Date: 9/11/2017 Analysis Date: 9/11/2017 SeqNo: 1444864 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID LCS-33808 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 33808 RunNo: 45542

Prep Date: 9/11/2017 Analysis Date: 9/11/2017 SeqNo: 1444865 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 96.2 90 110

Sample ID MB-33817 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 33817 RunNo: 45597

Prep Date: 9/12/2017 Analysis Date: 9/13/2017 SeqNo: 1447722 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID LCS-33817 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 33817 RunNo: 45597

Prep Date: 9/12/2017 Analysis Date: 9/13/2017 SeqNo: 1447723 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 94.0 90 110

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Page 8 of 11

Hall Environmental Analysis Laboratory, Inc.

WO#: 1709048

27-Sep-17

Souder, Miller & Associates **Client:**

Project: Quick Draw

Sample ID LCS-33721 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

LCSS Client ID: Batch ID: 33721 RunNo: 45469

Prep Date: 9/6/2017 Analysis Date: 9/7/2017 SeqNo: 1440795 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 10 44 50.00 0 88.0 73.2 114

Surr: DNOP 5.000 96.9 4.8 70 130

Sample ID MB-33721 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Batch ID: 33721 Client ID: PBS RunNo: 45469

Prep Date: 9/6/2017 Analysis Date: 9/7/2017 SeqNo: 1440796 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

Diesel Range Organics (DRO) ND 10 Motor Oil Range Organics (MRO) ND 50

Surr: DNOP 11 10.00 108 70 130

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- POL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

Page 9 of 11

Hall Environmental Analysis Laboratory, Inc.

WO#: **1709048**

27-Sep-17

Client: Souder, Miller & Associates

Project: Quick Draw

Surr: BFB

Sample ID MB-33682 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: **PBS** Batch ID: **33682** RunNo: **45408**

Prep Date: 9/1/2017 Analysis Date: 9/5/2017 SeqNo: 1439055 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 820 1000 82.4 54 150

Sample ID LCS-33682 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 33682 RunNo: 45408

910

Prep Date: 9/1/2017 Analysis Date: 9/5/2017 SeqNo: 1439056 Units: mg/Kg

1000

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 24 5.0 25.00 0 96.3 76.4 125

90.9

54

150

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analyte detected in the associated Method Blank

Page 10 of 11

Hall Environmental Analysis Laboratory, Inc.

WO#: 1709048

27-Sep-17

Client: Souder, Miller & Associates

Project: Quick Draw

Sample ID MB-33682 SampType: MBLK TestCode: EPA Method 8021B: Volatiles

PBS Client ID: Batch ID: 33682 RunNo: 45408

9/1/2017 Prep Date: Analysis Date: 9/5/2017 SeqNo: 1439078 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

Benzene ND 0.025 Toluene ND 0.050 Ethylbenzene ND 0.050 Xylenes, Total ND 0.10

Surr: 4-Bromofluorobenzene 1.3 1.000 128 66.6 132

Sample ID LCS-33682	3682 SampType: LCS TestCode: EPA Method 80				8021B: Volatiles					
Client ID: LCSS	Batch	n ID: 33	682	R	5408					
Prep Date: 9/1/2017	Analysis D	oate: 9/	5/2017	S	SeqNo: 1	439079	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	113	80	120			
Toluene	1.1	0.050	1.000	0	113	80	120			
Ethylbenzene	1.1	0.050	1.000	0	112	80	120			
Xylenes, Total	3.4	0.10	3.000	0	115	80	120			
Surr: 4-Bromofluorobenzene	1.3		1.000		128	66.6	132			

Qualifiers:

Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix D

Η Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

В Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P

Sample pH Not In Range

Reporting Detection Limit RL

Sample container temperature is out of limit as specified

Page 11 of 11



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

SMA-CARLSBAD Work Order Number: 1709048 RcptNo: 1 Client Name: 9/1/2017 8:45:00 AM Received By: Erin Melendrez 9/1/2017 12:32:52 PM **Ashley Gallegos** Completed By: 9/1/17 Reviewed By: NC Chain of Custody Yes 🗌 No 🗔 Not Present 1. Custody seals intact on sample bottles? No 🗆 Not Present Yes 🗸 2. Is Chain of Custody complete? 3. How was the sample delivered? Courier Log In No 🗆 NA 🗌 Yes 🔽 4. Was an attempt made to cool the samples? NA 🗆 Yes 🗸 5. Were all samples received at a temperature of >0° C to 6.0°C No 🗆 6. Sample(s) in proper container(s)? Yes 🗸 Yes 🗸 No 🗔 7. Sufficient sample volume for indicated test(s)? Yes 🗸 No 🗆 8. Are samples (except VOA and ONG) properly preserved? Yes 🔲 No 🗸 NA 🗌 9. Was preservative added to bottles? No 🗌 No VOA Viais 🗹 Yes 🗌 10. VOA vials have zero headspace? Yes 🗆 No 🗸 11. Were any sample containers received broken? # of preserved bottles checked Yes 🗸 No 🔲 for pH: 12. Does paperwork match bottle labels? (<2 or >12 unless noted) (Note discrepancies on chain of custody) Adjusted? No 🗌 Yes 🔽 13. Are matrices correctly identified on Chain of Custody? Yes 🗸 No 🗌 14. Is it clear what analyses were requested? Yes 🔽 No 🔲 Checked by: 15. Were all holding times able to be met? (If no, notify customer for authorization.) Special Handling (if applicable) NA 🔽 16. Was client notified of all discrepancies with this order? Yes No 🗌 Person Notified: Date By Whom: Via: eMail Phone Fax In Person Regarding: Client Instructions: 17. Additional remarks: 18. Cooler Information Cooler No Temp °C Condition Seal Intact Seal No Seal Date

0 5	BTEX + MTBE + TPH (Gas only) TPH 8015B (GRO / DRO / MRO) TPH (Method 418.1) EDB (Method 504.1) RCRA 8 Metals Anions (F,Cl,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄) 8081 Pesticides / 8082 PCB's 8250 (Semi-VOA) 8270 (Semi-VOA)		Remarks:	Received by: Re
Turn-Around Time: Standard Rush Project Name: SUJCK INAM Project #:	Project Manager: Container Preservative Pres	(-003 -004 -005 -006 -007 -008 -008	Received by: 8 19/17 19/15
Client: SMA Mailing Address: 20 S HAMMON S HAMMON S Phone #: 5 S CBA-704	email or Fax#: QA/QC Package: Standard Accreditation NELAP Date Time Matrix Sample Request ID	9/20 14-0.5 n:5 1-2	1:10	9417 0870 N. V.



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

OrderNo.: 1710507

October 18, 2017

Austin Weyant Souder, Miller & Associates 201 S Halagueno Carlsbad, NM 88221

TEL: (575) 689-7040

FAX

RE: Mewbourne Quick Draw

Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 5 sample(s) on 10/10/2017 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman

Laboratory Manager

Indest

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order **1710507**

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 10/18/2017

CLIENT: Souder, Miller & Associates Client Sample ID: L1-0.5'

 Project:
 Mewbourne Quick Draw
 Collection Date: 10/6/2017 9:55:00 AM

 Lab ID:
 1710507-001
 Matrix: SOIL
 Received Date: 10/10/2017 9:30:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Anal	/st: MRA
Chloride	76	30	mg/Kg	20	10/12/2017 11:13:41	PM 34395
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANIC	S			Anal	yst: TOM
Diesel Range Organics (DRO)	260	9.4	mg/Kg	1	10/11/2017 3:18:14 I	PM 34326
Motor Oil Range Organics (MRO)	150	47	mg/Kg	1	10/11/2017 3:18:14	PM 34326
Surr: DNOP	108	70-130	%Rec	1	10/11/2017 3:18:14 I	PM 34326
EPA METHOD 8015D: GASOLINE RAM	NGE				Anal	yst: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	10/11/2017 11:11:40	AM 34330
Surr: BFB	118	54-150	%Rec	1	10/11/2017 11:11:40	AM 34330
EPA METHOD 8021B: VOLATILES					Anal	yst: NSB
Benzene	ND	0.023	mg/Kg	1	10/11/2017 11:11:40	AM 34330
Toluene	ND	0.047	mg/Kg	1	10/11/2017 11:11:40	AM 34330
Ethylbenzene	ND	0.047	mg/Kg	1	10/11/2017 11:11:40	AM 34330
Xylenes, Total	ND	0.094	mg/Kg	1	10/11/2017 11:11:40	AM 34330
Surr: 4-Bromofluorobenzene	96.3	66.6-132	%Rec	1	10/11/2017 11:11:40	AM 34330

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 1 of 9
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Lab Order **1710507**

Date Reported: 10/18/2017

10/11/2017 12:22:08 PM 34330

10/11/2017 12:22:08 PM 34330

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Xylenes, Total

Surr: 4-Bromofluorobenzene

Client Sample ID: L2-0.5'

 Project:
 Mewbourne Quick Draw
 Collection Date: 10/6/2017 9:59:00 AM

 Lab ID:
 1710507-002
 Matrix: SOIL
 Received Date: 10/10/2017 9:30:00 AM

Analyses Result **PQL Qual Units DF** Date Analyzed Batch **EPA METHOD 300.0: ANIONS** Analyst: MRA Chloride 330 30 mg/Kg 20 10/12/2017 11:26:06 PM 34395 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: TOM Diesel Range Organics (DRO) 840 9.5 mg/Kg 10/11/2017 3:40:14 PM 34326 Motor Oil Range Organics (MRO) 600 48 mg/Kg 1 10/11/2017 3:40:14 PM 34326 Surr: DNOP 125 70-130 %Rec 10/11/2017 3:40:14 PM 34326 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: **NSB** Gasoline Range Organics (GRO) ND 4.9 mg/Kg 1 10/11/2017 12:22:08 PM 34330 Surr: BFB 98.4 %Rec 10/11/2017 12:22:08 PM 34330 54-150 **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 0.025 mg/Kg 1 10/11/2017 12:22:08 PM 34330 Toluene ND 0.049 mg/Kg 10/11/2017 12:22:08 PM 34330 1 10/11/2017 12:22:08 PM 34330 Ethylbenzene ND 0.049 mg/Kg 1

0.098

66.6-132

mg/Kg

%Rec

ND

95.4

-				
Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 2 of 9
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Lab Order **1710507**

Date Reported: 10/18/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: L2-2'

 Project:
 Mewbourne Quick Draw
 Collection Date: 10/6/2017 10:12:00 AM

 Lab ID:
 1710507-003
 Matrix: SOIL
 Received Date: 10/10/2017 9:30:00 AM

Analyses	Result	PQL Qua	al Units	DF Date Analyze	d Batch
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	590	30	mg/Kg	20 10/13/2017 9:2	1:23 AM 34395

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 3 of 9
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Lab Order **1710507**

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 10/18/2017

CLIENT: Souder, Miller & Associates Client Sample ID: L3-0.5'

 Project:
 Mewbourne Quick Draw
 Collection Date: 10/6/2017 10:14:00 AM

 Lab ID:
 1710507-004
 Matrix: SOIL
 Received Date: 10/10/2017 9:30:00 AM

Analyses	Result	PQL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: MRA
Chloride	200	30	mg/Kg	20	10/13/2017 9:33:48 AM	1 34395
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS	S			Analys	t: TOM
Diesel Range Organics (DRO)	810	100	mg/Kg	10	10/12/2017 9:15:05 AM	1 34326
Motor Oil Range Organics (MRO)	650	500	mg/Kg	10	10/12/2017 9:15:05 AM	1 34326
Surr: DNOP	0	70-130	S %Rec	10	10/12/2017 9:15:05 AM	1 34326
EPA METHOD 8015D: GASOLINE RANG	E				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	10/11/2017 1:32:42 PM	1 34330
Surr: BFB	110	54-150	%Rec	1	10/11/2017 1:32:42 PM	1 34330
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.023	mg/Kg	1	10/11/2017 1:32:42 PM	1 34330
Toluene	ND	0.047	mg/Kg	1	10/11/2017 1:32:42 PM	1 34330
Ethylbenzene	ND	0.047	mg/Kg	1	10/11/2017 1:32:42 PM	1 34330
Xylenes, Total	ND	0.094	mg/Kg	1	10/11/2017 1:32:42 PM	1 34330
Surr: 4-Bromofluorobenzene	94.6	66.6-132	%Rec	1	10/11/2017 1:32:42 PM	1 34330

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 4 of 9
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Lab Order **1710507**

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 10/18/2017

CLIENT: Souder, Miller & Associates Client Sample ID: L5-0.5'

 Project:
 Mewbourne Quick Draw
 Collection Date: 10/6/2017 10:17:00 AM

 Lab ID:
 1710507-005
 Matrix: SOIL
 Received Date: 10/10/2017 9:30:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	st: MRA
Chloride	5500	300	mg/Kg	200	10/17/2017 12:53:20	AM 34395
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS	3			Analy	st: TOM
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	10/11/2017 2:38:15 F	PM 34326
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	10/11/2017 2:38:15 F	PM 34326
Surr: DNOP	86.2	70-130	%Rec	1	10/11/2017 2:38:15 F	PM 34326
EPA METHOD 8015D: GASOLINE RA	ANGE				Analy	st: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	10/11/2017 1:56:05 F	PM 34330
Surr: BFB	90.4	54-150	%Rec	1	10/11/2017 1:56:05 F	PM 34330

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 5 of 9
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#: **1710507**

18-Oct-17

Client: Souder, Miller & Associates

Project: Mewbourne Quick Draw

Sample ID MB-34395 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 34395 RunNo: 46327

Prep Date: 10/12/2017 Analysis Date: 10/12/2017 SeqNo: 1475849 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID LCS-34395 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 34395 RunNo: 46327

Prep Date: 10/12/2017 Analysis Date: 10/12/2017 SeqNo: 1475850 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 15 1.5 15.00 0 96.7 90 110

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

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Hall Environmental Analysis Laboratory, Inc.

WO#: 1710507

18-Oct-17

Client: Souder, Miller & Associates **Project:** Mewbourne Quick Draw

Sample ID LCS-34326 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics LCSS Client ID: Batch ID: 34326 RunNo: 46256 Prep Date: 10/10/2017 Analysis Date: 10/11/2017 SeqNo: 1473179 Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 10 42 50.00 0 83.6 73.2 114

Diesel Range Organics (DRO) Surr: DNOP 5.000 85.8 4.3 70 130

TestCode: EPA Method 8015M/D: Diesel Range Organics Sample ID MB-34326 SampType: MBLK

Batch ID: 34326 Client ID: PBS RunNo: 46256

Prep Date: 10/10/2017 Analysis Date: 10/11/2017 SeqNo: 1473180 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

Diesel Range Organics (DRO) ND 10 Motor Oil Range Organics (MRO) ND 50

Surr: DNOP 9.8 10.00 98.2 70 130

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded Η
- ND Not Detected at the Reporting Limit
- POL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

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Hall Environmental Analysis Laboratory, Inc.

WO#: 1710507

18-Oct-17

Client: Souder, Miller & Associates **Project:** Mewbourne Quick Draw

Sample ID MB-34330 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: **PBS** Batch ID: 34330 RunNo: 46259

Prep Date: 10/10/2017 Analysis Date: 10/11/2017 SeqNo: 1474022 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

Gasoline Range Organics (GRO) ND 5.0

1000 Surr: BFB 910 91.1 54 150

Sample ID LCS-34330 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 34330 RunNo: 46259

Analysis Date: 10/11/2017 SeqNo: 1474023 Prep Date: 10/10/2017 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

Gasoline Range Organics (GRO) 5.0 25.00 117 76.4 125 Surr: BFB 1000 1000 101 54 150

Sample ID 1710507-002AMS SampType: MS TestCode: EPA Method 8015D: Gasoline Range

Client ID: L2-0.5' Batch ID: 34330 RunNo: 46259

Prep Date: 10/10/2017 Analysis Date: 10/11/2017 SeqNo: 1474030 Units: mg/Kg

SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result **PQL** LowLimit HighLimit Qual Gasoline Range Organics (GRO) 33 24.22 136 77.8 128 S

Surr: BFB 1100 969.0 110 54 150

Sample ID 1710507-002AMSD SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

Client ID: L2-0.5' Batch ID: 34330 RunNo: 46259

Prep Date: 10/10/2017 Analysis Date: 10/11/2017 SeqNo: 1474031 Units: mg/Kg

Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 32 4.8 23.92 0 133 77.8 128 3.30 20 S Surr: BFB 1000 956.9 110 54 150 0 0

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Η Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

POL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

В Analyte detected in the associated Method Blank

Е Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RLReporting Detection Limit

Sample container temperature is out of limit as specified

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Hall Environmental Analysis Laboratory, Inc.

WO#: **1710507**

Qual

18-Oct-17

Client: Souder, Miller & Associates

Project: Mewbourne Quick Draw

Sample ID MB-34330 SampType: MBLK TestCode: EPA Method 8021B: Volatiles Client ID: **PBS** Batch ID: 34330 RunNo: 46259 Prep Date: 10/10/2017 Analysis Date: 10/11/2017 SeqNo: 1474037 Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit**

 Benzene
 ND
 0.025

 Toluene
 ND
 0.050

 Ethylbenzene
 ND
 0.050

 Xylenes, Total
 ND
 0.10

Surr: 4-Bromofluorobenzene 0.96 1.000 96.0 66.6 132

Sample ID LCS-34330 SampType: LCS TestCode: EPA Method 8021B: Volatiles Client ID: **LCSS** Batch ID: 34330 RunNo: 46259 Prep Date: 10/10/2017 Analysis Date: 10/11/2017 SeqNo: 1474038 Units: mg/Kg **PQL** SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte Result LowLimit Qual 0.025 1.000 O 97.1 80 120 Benzene 0.97 Toluene 0.97 0.050 1.000 0 96.6 80 120 Ethylbenzene 0.99 0.050 0 99.1 80 120 1.000 Xylenes, Total 3.0 0.10 3.000 0 99.5 80 120 Surr: 4-Bromofluorobenzene 0.98 1.000 98.1 66.6 132

Sample ID 1710507-001AMS SampType: MS TestCode: EPA Method 8021B: Volatiles Client ID: L1-0.5' Batch ID: 34330 RunNo: 46259 Prep Date: 10/10/2017 Analysis Date: 10/11/2017 SeqNo: 1474041 Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Benzene 1.0 0.024 0.9597 108 80.9 132 Toluene 0.048 0.9597 0.01039 109 79.8 136 1.1 0.048 0.9597 0.01470 114 79.4 140 Ethylbenzene 1.1 Xylenes, Total 3.3 0.096 2.879 0.03567 114 78.5 142

0.9597

0.92

Sample ID 1710507-001AMSD SampType: MSD TestCode: EPA Method 8021B: Volatiles Client ID: L1-0.5 Batch ID: 34330 RunNo: 46259 Prep Date: 10/10/2017 Analysis Date: 10/11/2017 SeqNo: 1474042 Units: mg/Kg %REC **RPDLimit** Analyte Result PQL SPK value SPK Ref Val LowLimit HighLimit %RPD Qual 1.1 0.025 0.9960 0 110 80.9 132 5.98 20 Benzene Toluene 1.1 0.050 0.9960 0.01039 113 79.8 136 6.86 20 Ethylbenzene 1.2 0.050 0.9960 0.01470 118 79.4 140 7 30 20 Xylenes, Total 3.6 0.10 2.988 0.03567 119 78.5 142 7.58 20 Surr: 4-Bromofluorobenzene 0.98 0.9960 98.1 66.6 132 0 0

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Surr: 4-Bromofluorobenzene

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

Reporting Detection Limit

96.2

66.6

132

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL

W Sample container temperature is out of limit as specified

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Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109

Sample Log-In Check List

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com SMA-CARLSBAD Client Name: Work Order Number: 1710507 RcptNo: 1 Received By: Richie Eriacho 10/10/2017 9:30:00 AM Completed By: Erin Melendrez 10/10/2017 9:57:28 AM 10/10/17 Reviewed By: **Chain of Custody** Yes 🗌 No 🗌 Not Present 🗹 1. Custody seals intact on sample bottles?

2. Is Chain of Custody complete?	Yes 🗸	No 🗌	Not Present
3. How was the sample delivered?	Courier		
<u>Log In</u>			
4. Was an attempt made to cool the samples?	Yes 🔽	No 🗆	na 🗀
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes 🗹	No 🗌	NA 🗆
6. Sample(s) in proper container(s)?	Yes 🗸	No 🗆	
7. Sufficient sample volume for indicated test(s)?	Yes 🔽	No 🗌	
8. Are samples (except VOA and ONG) properly preserved?	Yes 🗹	No 🗌	
9. Was preservative added to bottles?	Yes	No 🗹	NA 🗆
10.VOA vials have zero headspace?	Yes	No 🗀	No VOA Viais 🗹
11. Were any sample containers received broken?	Yes 🗆	No 🗹	# of preserved
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes 🗹	No 🗆	bottles checked for pH: (<2 or >12 unless noted)
13. Are matrices correctly identified on Chain of Custody?	Yes 🗹	No 🗆	Adjusted?
14. Is it clear what analyses were requested?	Yes 🗹	No 🗆	
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes 🗹	No 🗆 📗	Checked by:

Special Handling (if applicable)

16.\	Was client notified of all o	discrepancies with this order?	Yes 🗔	No 🗌	NA 🗹
	Person Notified:		Date:	W	
	By Whom:			Phone 🔲 Fax	in Person
	Regarding:				
	Client Instructions:				

17. Additional remarks:

18. Cooler Information

Ī	Cooler No	Temp ºC	Condition	Seal Intact	Seal No	000.040	Signed By
	1	3.4	Good	Yes			

Sample Request ID Container Project Manager: Level 4 (Full Validation) Sample Request ID Type and # Type TRINES The Sample Request ID Type and # Type TRINES The Sample Request ID Type and # Type TRINES The Sample Request ID Type and # Type TRINES The Sample Request ID Type and # Type TRINES The Sample Request ID Type and # Type TRINES The Sample Request ID Type and # Type TRINES The Sample Request ID Type and # Type TRINES The Sample Request ID Type and # Type TRINES The Sample Time The Sample Time The Sample Time The Sample Time Table Time Time Time Table Time Time	Turn-Around Time: Standard Rush 5 day twenty
(E) □	SMA Address: 20 S. Hadaqueno Address: 20 S. Hadaqueno Address: 20 S. Hadaqueno Address: 20 S. Hadaqueno Apackage:
	#: Address: 20 #: Address: 20 Treat: AP